

About the possibility of increase in cgi properties by austempering

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Abstract

© 2018 Trans Tech Publications, Switzerland. The first results of the complex researches by NChI KFU, KAMAZ and RC Modifier of influence of heat treatment on CGI structure and properties are presented in the article. It is shown that austempering of CGI raises its strength characteristics more than twice and, thanks to good foundry properties, exclusively high the resistance of deformation, good damping capacity and machinability, allows to expand CGI applications, in particular, instead of the alloyed SGI, including ADI.

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Keywords

Austempering, Bainite, CGI, Properties

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